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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/676,270	09/28/2000	David Kammer	PALM-3197.US.P	6725

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EXAMINER

APPIAH, CHARLES NANA

ART UNIT	PAPER NUMBER
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2682

DATE MAILED: 10/01/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/676,270

Applicant(s)

KAMMER, DAVID

Examiner

Charles Appiah

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Specification of the Bluetooth System, Wireless Connections made easy, Profiles** (hereinafter referred to as "**the Specification**") in view of **Slaughter, III et al. (5,598,536)**.

Regarding claims 1, 9 and 18, the Specification discloses a method and a wireless communication device for discovering the name of a responding device in an initiator device having a wireless transceiver comprising the steps of broadcasting a first wireless signal to be received by the responding device (inquiry (GIAC) from A to B, B, 'B'), receiving a second wireless signal from the responding device, the second wireless signal is sent to the first wireless signal and comprising an address for the responding device (inquiry responses from B', B'' to A). See Fig. 6.1 on page 38. The Specification shows the Initiator storing a list of Bluetooth Device Addresses but fails to teach the feature of accessing a memory cache comprising names of devices and retrieving a name for the responding device from the memory cache, the name corresponding to the address.

Slaughter discloses a remote access server that allows remote users access to a local computer network and includes the feature of using a user ID string as entered by the user and communicated over a digital and/or analog communication link or links to the remote access server which uses the user ID string to index into a database and retrieve an IP address associated with the ID string (see col. 3, line 13 to col. 4, line 10, col. 6, line 65 to col. 7, line 10).

It would therefore have been obvious to one of ordinary skill in the art incorporate the indexing of an user ID with a stored address into the discovery process of the Specification in order to facilitate the transparent access to the network by remote authorized users.

Regarding claims 2, 10, 13, 19 and 22, the Specification as modified by Slaughter would show the steps of transmitting a wireless request for a name to the responding device (inquiry), receiving a name for the responding device (name request), see the Specification Fig. 6.4, sections 6.4.1-6.4.4, and storing the name of the responding device in the memory cache, wherein the name is indexed in the memory cache using the address for the responding device as taught by Slaughter, col. 3, lines 60-67).

Regarding claims 3-5, 12, 14, 15, 21, 23 and 24, the Specification fails to explicitly teach removing from the memory cache an entry for one of the plurality of responding devices when a total number of cache entries exceeds a predetermined limit, the entry comprising a name and an address, wherein an entry is removed from the memory cache according to an aging scheme, wherein the aging scheme ranks

entries according to frequency of use as well updating the memory cache when the name for the responding device is changed.

Slaughter further discloses that the database is maintained by the network manager who exercises control (e.g., has the authority and ability to define, add, and delete) remote user names, user ID strings and IP addresses (see col. 4, lines 4-10), suggesting the capability to remove a stored entry as well as carrying out update of entries in memory.

It would therefore have been obvious to one of ordinary skill in the art to use the teaching of Slaughter to provide needed removal and updating of entries in the memory in order to dynamically maintain and conserve the database or cache memory space as the entries changes including purging old entries that that have not been used or accessed for some time in the above combination of the Specification and Slaughter.

Regarding claims 6, 11 and 20, the combination of the Specification and Slaughter fail to specifically disclose displaying the name on a display of the initiator device. The concept of displaying names and information on wireless communication devices is very well known in the art and examiner takes Official Notice that it would have been obvious to one of ordinary skill in the art to provide a communication device having display capabilities for the benefit of verifying the retrieved name or address f in the Specification as modified by Slaughter.

Regarding claims 7, 8, 16, 25 and 26, the Specification shows wherein the initiator device and responding device are Bluetooth-enabled devices and the initiator device is a portable computer system (see page 38, section 6.2.1).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nelson et al. (5,835,720), Hansen et al. (6,442,144), Cole et al. (5,854,901) and Slane (5,668,952) all disclose methods and apparatuses for discovering devices on communication networks.

Shaffer et al. (6,249,814) discloses a method for identifying devices on a network.

Lehtonen (EP 1322071) discloses a method for identifying a terminal.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Appiah whose telephone number is 703 305-4772. The examiner can normally be reached on M-F 7:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703 305-6739. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306-0377.

September 19 2003
CA


CHARLES APPIAH
PRIMARY EXAMINER